Date: Fri, 22 Oct 93 04:31:07 PDT
From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>
Errors-To: Ham-Space-Errors@UCSD.Edu
Reply-To: Ham-Space@UCSD.Edu
Precedence: Bulk
Subject: Ham-Space Digest V93 #62
To: Ham-Space

Ham-Space Digest Fri, 22 Oct 93 Volume 93 : Issue 62

Today's Topics:

Send Replies or notes for publication to: <Ham-Space@UCSD.Edu>
Send subscription requests to: <Ham-Space-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Space Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-space".

Date: 21 Oct 1993 13:20:00 GMT
From: nevada.edu!news.unomaha.edu!crcnis1.unl.edu!unlinfo.unl.edu!djw@uunet.uu.net
Subject: R0MIR-1 freq.
To: ham-space@ucsd.edu

Thanks for reading this post.....
 What is(are) the uplink frequency(ies) for the R0MIR-1 packet
robot onboard the MIR spacecraft.Is the operation split-frequency
like the shuttle, or is it simplex? I hear R0MIR-1 frequently
at my QTH and would like to try to work it.Any operating hints
would also be appreciated. TNX!
       Dan-WA0JRD
       djw@unlinfo.unl.edu

Date: 21 Oct 93 12:37:48 EDT
From: psinntp!arrl.org@uunet.uu.net
Subject: R0MIR-1 freq.

To: ham-space@ucsd.edu

In rec.radio.amateur.space, djw@unlinfo.unl.edu (daniel wright) writes:
>Thanks for reading this post.....
> What is(are) the uplink frequency(ies) for the R0MIR-1 packet
>robot onboard the MIR spacecraft.Is the operation split-frequency
>like the shuttle, or is it simplex? I hear R0MIR-1 frequently
>at my QTH and would like to try to work it.Any operating hints
>would also be appreciated. TNX!
>   Dan-WA0JRD
>   djw@unlinfo.unl.edu
>
>

MIR operates on 145.55 MHz FM simplex. Their schedule tends to be
erratic. Sometimes they operate packet, other times voice. If you
connect to their mailbox, post your message in Russian if possible.
You'll dramatically increase your changes of receiving a reply
(in Russian, of course!).

Keep in mind that the crew is living on Moscow time. Generally
speaking, they have the most free time between 2100 Moscow
time and 2300. That's their relaxation period before they go
to sleep.

A new crew will be going up in mid to late November. No word yet
on which call sign they'll use.

73...Steve, WB8IMY
American Radio Relay League

Date: Thu, 21 Oct 1993 07:21:13 GMT
From: swrinde!elroy.jpl.nasa.gov!usc!howland.reston.ans.net!ee.und.ac.za!
hippo.ru.ac.za!pukrs7.puk.ac.za!pc2.puk.ac.za!itbkl@network.ucsd.edu
Subject: SAREX PACKET WORKED
To: ham-space@ucsd.edu

FROM ZS6TW, PRETORIA, SOUTH AFRICA

I worked SAREX last night on Packet using the
normal freqs (145.550 down, 144.490 up).

Looks like I was station #28 who worked it. On the following orbit,
SAREX was giving #70 + for other stations, so I guess there must be
quite a lot of people trying to get into it.

Equipment : Kenwood 751, 25W into SlimJim.

Sigs : 54.

I can't remember the exact time, but it was on the orbit
just before they spoke to one of the U.S. schools.

After you connect to SAREX, and receive your QSO number, send an
empty packet back to the Shuttle. It will then automatically disconnect.

Keith.
 Potch Univ.   Email :   Tel:
 Potchefstroom   itbkl@puknet.puk.ac.za   Voice (0148) 992126
 West Transvaal   FAX   (0148) 992799
 South Africa

Date: Thu, 21 Oct 1993 02:27:00 GMT
From: tribune.usask.ca!kakwa.ucs.ualberta.ca!alberta!nebulus!ve6mgs!
usenet@decwrl.dec.com
Subject: STS-58 Element Set GSFC-008
To: ham-space@ucsd.edu

SB SAREX @ AMSAT $STS-58.008
STS-58 Element Set GSFC-008

The following represents that latest Keplerian element set as generated by
Ron Parise, WA4SIR, at the Goddard Space Flight Center.

```
 STS-58
 1 22869U 93 65  A 93293.74246772 0.00042993  00000-0  10039-3 0    89
 2 22869  39.0199 114.9263 0004996 302.7634  57.2694 15.96059457   351

 Satellite: STS-58
 Catalog number: 22869
 Epoch time:      93293.74246772         (20 OCT 93   17:49:09.21 UTC)
 Element set:     GSFC-008
 Inclination:       39.0199 deg
 RA of node:       114.9263 deg          Space Shuttle Flight STS-58
 Eccentricity:    0.0004996                  Keplerian Elements
 Arg of perigee:   302.7634 deg
 Mean anomaly:      57.2694 deg
 Mean motion:   15.96059457 rev/day      Semi-major Axis: 6663.4962 Km
 Decay rate:       0.43E-03 rev/day*2    Apogee  Alt:        288.44 Km
 Epoch rev:              35              Perigee Alt:        281.78 Km
```

NOTE - This element set is based on NORAD element set # 008.
The spacecraft has been propagated to the next ascending
node, and the orbit number has been adjusted to bring it
into agreement with the NASA numbering convention.

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group

/EX

Date: Wed, 20 Oct 1993 10:40:52 MDT
From: europa.eng.gtefsd.com!library.ucla.edu!news.mic.ucla.edu!unixg.ubc.ca!
kakwa.ucs.ualberta.ca!alberta!nebulus!ve6mgs!usenet@uunet.uu.net
Subject: Two-Line Orbital Element Set: Space Shuttle
To: ham-space@ucsd.edu

The most current orbital elements from the NORAD two-line element sets are
carried on the Celestial BBS, (513) 427-0674, and are updated daily (when
possible). Documentation and tracking software are also available on this
system. As a service to the satellite user community, the most current
elements for the current shuttle mission are provided below. The Celestial
BBS may be accessed 24 hours/day at 300, 1200, 2400, 4800, or 9600 bps using
8 data bits, 1 stop bit, no parity.

Element sets (also updated daily), shuttle elements, and some documentation
and software are also available via anonymous ftp from archive.afit.af.mil
(129.92.1.66) in the directory pub/space.

STS 58
1 22869U 93 65 A 93292.58333332 .00042051 00000-0 98794-4 0   67
2 22869 39.0187 122.6348 0005886 299.5785 230.6978 15.95764552   155
--
Dr TS Kelso   Assistant Professor of Space Operations
tkelso@afit.af.mil   Air Force Institute of Technology

Date: Thu, 21 Oct 1993 23:44:27 GMT
From: haven.umd.edu!cs.umd.edu!afterlife!blackbird.afit.af.mil!tkelso@uunet.uu.net
Subject: Two-Line Orbital Element Set: Space Shuttle
To: ham-space@ucsd.edu

The most current orbital elements from the NORAD two-line element sets are
carried on the Celestial BBS, (513) 427-0674, and are updated daily (when
possible). Documentation and tracking software are also available on this

system. As a service to the satellite user community, the most current elements for the current shuttle mission are provided below. The Celestial BBS may be accessed 24 hours/day at 300, 1200, 2400, 4800, or 9600 bps using 8 data bits, 1 stop bit, no parity.

Element sets (also updated daily), shuttle elements, and some documentation and software are also available via anonymous ftp from archive.afit.af.mil (129.92.1.66) in the directory pub/space.

STS 58
1 22869U 93 65 A 93294.22916666 .00046030 00000-0 10578-3 0   106
2 22869 39.0201 111.6925 0005314 317.9600 323.1535 15.96327200   410
--
Dr TS Kelso   Assistant Professor of Space Operations
tkelso@afit.af.mil   Air Force Institute of Technology

Date: Thu, 21 Oct 1993 05:26:24 GMT
From: noc.near.net!gateway-gw!newshost!wpns@uunet.uu.net
To: ham-space@ucsd.edu

References <750600011.AA00149@afarm.uucp>, <CF3u4J.3L5@alsys.com>,
<2a1asg$mk2@ornews.intel.com>.ne
Subject : Re: Keps for the Moon

labelle@ornews.intel.com (George La Belle) writes:
>garym@alsys.com (Gary Morris @ignite) writes:
>>Ron.Parsons@f40.n382.z1.fidonet.org (Ron Parsons) writes:

>>>I need a set of 2-line Keps for the Moon.

>>I've been told that Keps are not sufficient to descirbe the orbit of the
>>Moon.

>   Then how accurate is the IT tracking program for the moon. The

My understanding of IT (and presumably others) is that they don't use
standard elements to describe the motionsof the moon and sun, but
rather escape into other routines that do those jobs separately.

--
Willie Smith wpns@pictel.com   N1JBJ@amsat.org
She's writing a formal letter of complaint to the Internet Administration!

End of Ham-Space Digest V93 #62
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